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# AGRICULTURAL LIBRARIES INFORMATION NOTES

## COLLECTION POLICY AT NAL

by  
Leslie A. Kulp

Collection development at the National Agricultural Library (NAL) is based upon the research, educational, and administrative needs of the Department of Agriculture, the agricultural community, and the public at large. Its administrative authority stems from the Organic Act of 1862 establishing the Department. Among other things, the Act charged the Department with the responsibility to "acquire and diffuse among the people of the United States useful information on subjects connected with agriculture in the most general and comprehensive sense of the word." Agriculture is a multidisciplinary field and in its most "comprehensive sense" encompasses much of the physical, biological, and social sciences.

Responsibility for interpretation of the collection policy and selection of material for the collection is shared jointly by the Reference and Acquisitions Divisions. Selectors are librarians with expertise in subject areas such as plant and animal science, chemistry, social science, entomology, etc., language areas (Germanic, Romance, Oriental, and Slavic); as well as the book trade. A selection committee comprised of four senior selectors reviews new titles of substantial cost or of questionable relevance to the collection scope. Recommendations are welcomed and even solicited from the USDA staff, but the responsibility for ensuring a well balanced and coordinated collection ultimately rests with the Library staff.

The major selection tools utilized routinely are: Library of Congress proofslips, *Weekly Record*, Commonwealth Agricultural Bureaux publications, *Australian National Bibliography*, *Directory of Published Proceedings*, *Science*, *Bioscience*, and *Nature*. Besides these, there are a plethora of publishers' announcements, special selecting tools, and user recommendations. Agents also provide preliminary selection services for the Library. Most of the blanket order dealers select from national bibliographies of those countries assigned to them. Other agents have computerized profiles which automatically pre-select publications for NAL consideration.

In FY 1976, \$568,000 were allocated for the purchase of material for the main collection. This enabled the Library to obtain about 9,000 monographs and about 5,500 serial subscriptions (4,100 titles). In addition, about 2,500 pieces were received on continuation (standing) orders. On a gift or publication exchange basis, the Library received about 4,800 monographs and 16,000 serial titles. Gift and exchange materials were acquired from more than 11,000 sources located in about 160 countries. The amount of material surplusd as being either duplicative of current holdings or not in scope for the collection was well over 200,000 pieces. There are about 1.6 million volumes in the collection.

*Dr. Kulp is Chief, Acquisitions Division, National Agricultural Library, Beltsville, Maryland 20705.*

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The *core* subjects of the collection in which the Library has consistently made an effort to acquire comprehensively are summarized as follows:

Agriculture (general)

Economic, historical, technical, commercial, sociological, legal, financial, educational, biographical, and other aspects.

Agricultural societies, organizations, cooperatives, etc.

Animal science

Animal husbandry, entomology, veterinary science, economic zoology, and zoology of domestic animals.

Plant science

Economic and general botany, plant culture, field crops, forest crops, horticultural crops (including fruits, vegetables, ornamentals), plant pathology, weeds, etc.

Agricultural chemistry

Chemical pollution, pesticides.

Agricultural engineering

Farm structures, farm machinery, rural electrification, irrigation, drainage, water supply, flood control.

Soils, fertilizers, and soil conservation

Forestry and utilization and technology of raw forest products.

Agricultural products, including industrial uses.

Rural sociology and rural life.

Agricultural economics

Marketing, finance, labor, land, farm management, farm and crop insurance, etc.

Agricultural statistics

Production, trade, consumption of agricultural and forest products, prices, etc.

Food and nutrition

The collection policy statement provides the necessary guidance for maintaining the continuity of the collection. NAL's statement is currently undergoing revision (scheduled to be published, January 1978). Since it was last issued, NAL adopted the Library of Congress classification scheme. While this created no problems for Library staff already familiar with collection policy, new personnel and anyone else who was unacquainted with the former NAL classification scheme had difficulties locating or identifying specific information in the highly altered text. In the new statement, the text will be arranged in accordance with the LC schedules. Furthermore, an index is planned which should enhance the statement's usefulness.

The collection policy has also been enlarged to include new subject materials in response to expanding needs of the Department staff. For example, in areas concerning the environmental effects of agricultural chemicals, pesticides have been found in all forms of wildlife, including polar animals and pelagic fishes necessitating the addition of relevant subjects to the collection. Also, Departmental interests in protein and other food reserves, sea farming, and fish farming require limited materials on limnology, marine biology as well as oceanography. Besides these new areas of collecting responsibility, other subjects previously collected are receiving greater emphasis. Solar energy, wind energy, fisheries, environmental protection, and hydrology are areas which are more thoroughly sought.

Increasing the subject coverage of the collection without additional allocation of resources has made this effort problematic. Integral aspects of the collection development program are the need to maintain the continuity of the collection in order to meet the long range goals of the user community, and the need for flexibility to meet

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their ever changing immediate demands. In order to develop strong research collections, acquisition policy must build on current strengths; otherwise, the research value of the Library will rapidly deteriorate. On the other hand, NAL must be responsive to current needs in order to be effective. In an effort to do both, NAL is attempting to improve the efficiency of its acquisition programs while expanding gradually into new areas.

Another significant change is that some documents are now collected as microform "sets." For our purposes a set represents a group of documents originating from a common source (or sources) which lend themselves conveniently to bulk purchase, mass processing and ready access for servicing.

For example, NAL has established a blanket order arrangement with the National Technical Information Service (NTIS) whereby documents of major interest to the collection will be sent to the Library bi-weekly on microfiche. The set is not cataloged, but a guide card is placed in the Public Catalog with instructions for obtaining publications. The microfiche are arranged in order according to the NTIS accession number which also serves as the means of access for retrieval. It is a relatively easy task to locate the accession number when it is unknown by searching *Government Reports Announcements and Index*.

Beginning with the January 1975 issue, NAL acquires in microfiche all Food and Agriculture Organization (FAO) documents announced in the *FAO Documentation - Current Bibliography*.

Unlike the NTIS material, no selective process is involved here. In response to patron requests, the Library feels the need to collect this material as comprehensively as possible. It is estimated that more than 2,600 documents will be received in 1977 by this arrangement.

All titles listed in the *Monthly Catalog of United States Government Publications* for U.S. Geological Survey and the U.S. Department of Agriculture (USDA) from 1958 to present are obtained on microprint sheets from the Government Printing Office. Copies of USDA publications serve to enhance our comprehensive

hard copy collection of this material as back-up for document delivery and security for loss. As the Departmental Library, NAL attempts to maintain an exhaustive collection of USDA-related publications. The *Monthly Catalog* serves as the author and subject index for these publications. In addition, the Library is collecting microform sets of environmental impact statements selected UN documents, all documents cited in the *CIS Annual Index to Congressional Publications and Public Laws*, and the *American Statistical Index*.

The purchase of microform sets has enabled the Library to acquire, process, and control a large number of documents with minimal expenditure of resources. The time and effort saved by not having to process every individual item contained in each set has been made available for processing additional materials which otherwise would have been backlogged. In addition, savings realized from the purchase of material in less expensive microform editions assist the Library in extending the subject coverage of the collection. By making more pertinent material available through the collection, services to users are significantly enhanced.

Our Associate Director, Samuel Waters, has just received notice of his election as Vice-President/President-elect of the Federal Librarians Round Table of ALA. He is encouraging all Federal librarians to join the group. Sam would appreciate receiving comments from both members and non-members about areas of major concern to Federal Librarians, to which the organization should direct its attention.



## INFORMATION ON REMOTE SENSING---RESORS

Users and librarians interested in remote sensing information can obtain computerized bibliographies from the Canada Centre for Remote Sensing. RESORS (standing for Remote Sensing On-line Retrieval System) is used widely by users directly through on-line access from terminals and indirectly through telephone, telex, or mail requests to the Canada Centre for Remote Sensing in Ottawa.

RESORS covers instrumentation, techniques, and applications of remote sensing (dealing with the observation from a distance of the Earth's near surface environment). Examples of titles covered in RESORS are:

*Utilization of ERTS Data to Detect Plant Diseases*

*Airborne Detection and Mapping of Oil Spills*

*Evaluation of Remote Sensing in Control of Pink Bollworm in Cotton*

*Thermal Infrared Remote Sensing: A Bibliography*

*Landslide Analysis and Susceptibility Mapping*

*A Simple Colour Meter for Limnological Studies*

*Investigations on the Thermal Behaviour of Plants Affected by Virus and Fungus Diseases*

Items selected for RESORS include published and unpublished reports, journal articles, technical reports, symposia and conference papers, government agency reports, and some progress reports. Only English and French materials are covered.

References appearing in the U.S. National Technical Information Service (NTIS) under "remote sensing" and NASA's *Quarterly Literature Review of Natural Resources* are placed into RESORS as well. The vast majority of the citations are from 1970 to present. The base currently has about 11,000 citations, with 400 added each month.

In addition to covering printed information, RESORS

has a collection of slides from both commercial and personal sources. If desired, computer searches can be made of the slide file.

A RESORS printout gives the user the document title, author, publication source, author affiliation, category number, paging, date, number of references in the document, and keywords; there is no abstract. Keywords are assigned from a controlled vocabulary listed in the RESORS Dictionary. Normally five to twenty keywords are assigned per document, including general geographic keywords (country) and some format keywords (for the slide data base). There are about 1,400 keywords in RESORS; examples of terms are acoustical-filter, atmospheric-reflectance, drought-effect, forest-inventory, ground-stations, legal aspects, ozone, real-time, soil classification, spectrometer, surface-composition, tropical-environment, water-salinity, and wheat.

The RESORS bibliographic base is not produced as a printed index or single published document. RESORS is designed to respond to individual requests for searches. RESORS can be accessed on-line through a user's terminal, and some persons use the system this way. Search requests can also be sent to the Canada Centre for Remote Sensing. There is no charge for printouts obtained from the Ottawa Centre. When requesting searches, the user must select from either the document data base or the 35mm slide data base. Updates of previous searches can be made if the date of the previous search is known.

When submitting a request to RESORS the user must define the request in terms of the controlled vocabulary of the system. Users would need to refer to the *RESORS Dictionary* to select appropriate keywords and would have to write out the request using these keywords. A request form, guides for the system, and the current list of keywords can be obtained for no charge from the following:

RESORS  
Canada Centre for Remote Sensing  
717 Belfast Road  
Ottawa, Ontario  
K1A 0Y7 CANADA  
(613) 995-1210



## FAO DOCUMENTS ON MICROFICHE

Recent announcement of the availability of FAO documents on microfiche has brought several inquiries to NAL regarding coverage, payments, and costs. We wrote to FAO in Rome and talked with the U.S. outlet for these publications - UNIPUB - and have this to report.

All items appearing in *FAO Documentation* are systematically microfiched by the FAO Library on COSATI format (60 exposures per fiche). The FAO Library will accept subscriptions for monthly consignments of diazo microfiche of ALL items appearing in *FAO Documentation*. This must be a standing order for a complete set; the tariff is U.S. \$1 per document. Although many documents exceed 60 pages and the average number of microfiches produced is about 400 per month, a subscriber will be billed approximately U.S. \$200 - \$250, depending on the number of documents issued. This appears to be the most economical method of assuring a good set, if a near full set is required. Subscription requests in this case should be addressed to:

FAO Library  
Reference and Documentary Information  
Division  
Food and Agriculture Organization of  
the United Nations  
Rome, 00100, Italy

Microfiche orders by subject sections related to FAO Divisions (e.g. Animal, Plant and Fisheries) will be accepted. These will cost much more per item than for the full set; further details are available on request at the same address. At present, efforts are underway to commence a silver halide fiche service which will be announced with price schedules when available.

UNIPUB will supply photocopies or originals unless the order clearly states FICHE ONLY. No fiche are stocked by UNIPUB, so if you order a fiche, expect an 8 to 10 week delay. Costs for fiche are \$4 for the first fiche, plus \$1 for each additional fiche required to complete the title. Primary documents in printed format from 1975 on are available and may be ordered separately, or on a standing order. Prices

for the latter upon request to:

UNIPUB  
Box 433, Murray Hill Station  
New York, N.Y. 10016

Telephone: (212) 686-4707

The FAO Library reminds that their documentation on microfiche is covered by international copyright regulations. Further duplication of microfiche or preparation of enlarged-prints in substitution of loan of microfiche may be carried out at the discretion of the librarian provided that the user signs the statement to comply with copyright regulations.

*Julia S. Merrill, Library Services, National  
Agricultural Library, Beltsville, Maryland 20705,  
(301) 344-3834*

Plan to visit the NAL Booth at Special Libraries Association Convention and at the American Library Association Convention.

At SLA:

Booth 437  
New York Hilton  
New York, N.Y.

At ALA:

Booth 344  
Cobo Hall  
Detroit, Michigan





Mr. Brooks Hays, former USDA employee and Congressman from Arkansas, located a copy of *Agriculture in the Twentieth Century, Essays on Research, Practice, and Organization to Be Presented to Sir Daniel Hall* (Oxford, at the Clarendon Press, 1939), at an estate sale on March 19, 1977 and purchased it for 25 cents.

It contained a bookplate of the National Agricultural Library. It was returned to the Secretary of Agriculture, who in return queried the Library as to how long it had been missing. A records check revealed that the book had been lost in 1942 and removed from our records during the 1960 inventory. It had been missing 35 years!

## AGRICOLA



### LANGUAGE ANALYSIS OF THE AGRICOLA DATA BASE

An analysis of the CAIN part of the AGRICOLA data base was conducted to determine language distribution of records entered into this system since 1970. Publication imprint dates covering 1968-76 were searched online in February 1977, using the Lockheed information retrieval system to access AGRICOLA.

In *toto* there were 84 languages represented in the 868,841 citations recorded.

Following are the results which were tabulated:

#### 1. Distribution by language for imprints of 1968-76.

English	522,133	60%
(United States)	315,000	36%*
(Other English)	207,133	24%*
Slavic	128,615	15%
(Russian)	73,879	9%
Romance	87,121	10%
German	76,634	9%
Oriental	24,932	3%
All Other	<u>29,406</u>	<u>3%</u>
TOTAL	868,841	100%

\*Estimated

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II. Distribution by imprint dates 1968-76 for English and Foreign languages.

<u>Imprint Date</u>	<u>All Items</u>	<u>English</u>	<u>Foreign</u>	<u>English % of Total</u>
1968	12,793	8,355	4,438	65
1969	66,751	45,873	20,878	68
1970	103,377	58,049	45,328	56
1971	115,812	64,893	50,919	56
1972	119,278	67,322	51,956	56
1973	123,677	70,673	53,004	57
1974	128,292	75,422	52,870	58
1975	134,974	82,365	52,609	61
1976	<u>63,887*</u>	<u>49,181</u>	<u>14,706</u>	77
TOTAL	868,841	522,133	346,708	

\*This relatively low number of items for 1976 imprints reflects the fact that Lockheed had not added the December 1976 or January 1977 tapes to their data base as of this search date; and the fact that 50-60% of citations input to CAIN have an imprint date which is more than 4 months old.

— Carol A. Johnson  
Chief, Analysis Division, NAL



I have just returned recently from the Institute Nacional de Investigaciones Agrarias (INIA) Madrid, Spain. I was there under the auspices of the USDA Spanish Grant Program to assess the computer research and methodology needs of INIA.

Dr. Javier Moro and his colleagues of INIA have made great progress in their use of bibliographical information. INIA has put the international AGRIS data base up online and are running current awareness on their central Control Data Corporation (CDC) CYBER 172 computer system. Substantial progress has also been made in putting AGRICOLA up on the CDC CYBER 172.

I came back from the trip impressed with the commonality of computer related problems of agricultural information users. I was also impressed with the progress my colleagues had made and urged them to make their accomplishments more widely known. But most of all, their genuine ability, friendliness and hospitality renewed my conviction in the importance of providing and sharing AGRICOLA and related computer technology with the world.

— Ronald J. Walton  
Chief, Computer Applications

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## NEWS FROM THE FIELD

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*Reporting activities from the southwest region - Lowell Duhrsen, University Library, New Mexico State University and Linda White, University of Arizona.*

The Technology Application Center (TAC) located on the campus of the University of New Mexico in Albuquerque, one of six NASA-established regional dissemination centers in the United States, is offering computer produced searching and document retrieval packages relating to energy, with many applications to the agricultural sciences. New Mexico, long a leading producer of conventional fossil fuels, has moved into a prominent position in both nuclear and solar energy research. The four series presently offered on a retrospective and update basis are: solar thermal energy utilization, hydrogen energy, heat pipe technology and remote sensing. With the location of the national solar research facility scheduled for close-by Golden, Colorado, TAC's computer facility should become even more prominent in the solar research area.

The New Mexico Department of Agriculture is, at present, one of only two such departments in the nation that is located on and administered by the state land-grant institution, namely New Mexico State University in Las Cruces.

*Reporting activities in the Pacific region - Norman D. Alexander, California Polytechnic State University*

### **SANTA CLARA, CALIFORNIA, UNIVERSITY OF SANTA CLARA**

Victor Novak, University Librarian, reports the establishment of the Institute of Agribusiness at the University of Santa Clara School of Business Administration. Currently enrolling 45 students, 18 of them from abroad, the third class will graduate in September 1977, receiving an MBA

degree. As a result of the Institute, the library has expanded its holdings in agriculture, especially with FAO documents.

### **OROVILLE, CALIFORNIA, BUTTE COLLEGE**

The California State Landscape Placement Project located at Butte College, is the first program of its kind established to provide placement service for the entire horticulture industry on a statewide basis. The program, in its second year of operation, is a state-funded Vocational Education Act pilot project. Although the project is designed to help find employment for community college horticulture landscaping majors and graduates, all interested persons are encouraged to apply, including those with no formal training, persons with four-year degrees, and those wishing to change employment or location within the field. An additional service is a monthly list of open positions distributed to all community colleges in California having horticulture programs.

The project staff is continually compiling data for use by the industry and by educators in the field. Howard F. Holman, III, is the Director of the project and may be contacted through the Landscape Placement Project, c/o Butte College, Agriculture Division, Route 1, Box 183A, Oroville, CA 95965, (916) 895-2442.

### **FRESNO, CALIFORNIA**

Sharon Vandercook, Director of the San Joaquin Valley Information Service reports on the development of an intertype library network in the San Joaquin Valley. The Area Wide Library Network (AWLNET) is a cooperative alliance of libraries of all types in Fresno, Kings, Tulare, and Madera Counties. Members include school, public, academic, and special libraries. Each library assists the others on interlibrary loan and reference. Since all of the community colleges and California State University at Fresno are members, the general public in this area have access through their public libraries to the agriculture collections of the academic libraries. The academic libraries through this network can take advantage of the statewide public library system reference network, including the Bay Area Reference Center, Southern California Answering Network, and the California State Library Service to Industry.

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## **CORVALLIS, OREGON**

Mike Kinch, Agriculture/Forestry Librarian at Oregon State University, reports the School of Agriculture is the heaviest user of LIRS, the Library Information Retrieval Service, an automated bibliographic searching service provided by the Kerr Library of OSU. The OSU terminals are connected with Lockheed Information System, Systems Development Corporation and the National Library of Medicine. Ninety eight searches out of 474 searches in the six-month period July 1976 to January 1977, were made by the School of Agriculture.

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CID, the Consortium for International Development is a legal, nonprofit corporation concerned with assisting the orderly development, management, and use of the limited resources of the world, to help alleviate the world food problem. Funded by the U.S. Agency for International Development, members of CID are Oregon State University, University of California (Riverside and Davis), Colorado State University, Texas Tech University, University of Arizona, and Utah State University. CID Information Network (CIDNET) was implemented in 1975 to improve access to the services of CID. CIDNET is interested in providing information and services to both the faculties providing technical assistance to a CID project and by persons in developing countries. Specific services vary from university to university.

OSU is particularly concerned with dryland agriculture worldwide and reports the library's involvement as follows:

"The initial efforts to establish an information resource have centered on the identification and collection of the existing body of literature concerned with dryland agriculture worldwide. Concurrently, grant supported staff have begun developing a system of information linkages with other institutions--both in the U.S. and abroad--where dryland research is carried out.

The problem of providing relevant research literature is two-fold. First, the task of assembling

necessary literature and establishing a procedure to search the literature for appropriate citations had to be solved. Literature delivery--the process of putting information into the hands of competent and needy researchers--constituted the second phase of the problem. It was determined that both activities need to be implemented simultaneously to create an effective system.

The major thrust of this objective is to increase the capacity of the William Jasper Kerr Library at Oregon State University to provide basic and specific materials concerning dryland agriculture in the world. In this manner the opportunities to conduct relevant and important research are enhanced within OSU as well as without.

To date, about 3,000 separate literature citations have been assembled, processed, and incorporated into a computerized dryland bibliography. The bibliography covers all disciplines related to dryland farming, but devotes special attention to the disciplines of agricultural engineering, agricultural economics, soils, agronomy, and range management. Journals, books, serials, papers, bulletins, and previously uncataloged reports from the United States and the North African-Mediterranean region are included in the bibliography.

The bibliography may be searched by use of the computer through a key words system. Individual citations contain publication title, author's name, source, descriptive key words, and access numbers. It does not provide an abstract, however. The bibliographic system is increasing rapidly."







*Annotated Bibliography on the Ecology and Reclamation of Drastically Disturbed Areas.*

Miroslaw M. Czapowskyi. 1976. 98 p.  
(USDA Forest Service, General Tech. Report NE-21). Order from: Northeastern Forest Experiment Station, 6816 Market Street, Upper Darby, Pa. 19082.

591 annotated references to literature mainly on mining effects and reclamation in the coal regions of the United States.

*A Bibliography of Rural Development: Listings by Topic.*

Carrie G. Parker, Howard W. Ladewig, Edward L. McLean, compilers. 80 p. June 1976.  
(Department of Agricultural Economics and Rural Sociology, South Carolina Agricultural Experiment Station, Clemson University.)  
Available from publisher, Clemson, S.C. 29631.

*Environmental Statements Under Preparation as of December 15, 1976.*

Forest Service,  
U.S. Department of Agriculture. 9 p. (*Federal Register*, vol. 42, no. 33, February 17, 1977)  
A listing of environmental statements grouped by organizational units, nature of proposal, responsible official and date.

*Trees and Shrubs of the United States.*

A bibliography for identification. 56 p. USDA, Forest Service, Miscellaneous Publication 1336, November 1976. 75 cents. Stock No. 001-03589-4. Catalog No. A1.38:1336. Order from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.  
The purpose of this bibliography is to help answer the question: "Where can I find information about this tree or shrub?" Vines are also covered. The 470 titles list general references, as well as subdivisions by geographic regions, all 50 states, Puerto Rico, the Virgin Islands, and Guam. Most works were published between 1950 and 1975. Some references go to genera and families, and the list goes far beyond the identification category.

Clearance has been given the Forest Service to publish the following bibliography. No date has been announced.

*Annotated Bibliography on Gypsy Moth Population Dynamics.* 592 references.

**QUICK BIBLIOGRAPHY SERIES**

The bibliographies in this series are primarily computerized online or batch bibliographies emanating from searches performed by the NAL Reference staff in response to customer requests.

Searches are selected for inclusion in this series for the currency of topic, depth of interest among NAL clientele, relative length (approximately 150 citations or more) and probable value to a larger audience. All titles in this series will be listed monthly for a six month period after which they will be withdrawn. Any revisions or updates will be renumbered and reannounced. Only one copy will be sent of a title; however, requestors may make photocopies. To request a copy of a "quick bibliography" send the title, series number, and a return addressed label to:

Reference Division  
National Agricultural Library  
Beltsville, MD 20705

- NAL -- BIBL. -- 77-01. *Christmas Tree Production.* 212 citations from AGRICOLA, English only, Fall, 1968 to August 1976. Search by Jerome Rafats.
- NAL -- BIBL. -- 77-02. *Availability of Metals in Soils.* 200 citations from AGRICOLA, no exclusions. Search by Charles N. Bebee.
- NAL -- BIBL. -- 77-03. *Atrazine.* 212 citations from AGRICOLA, English only. Search by Jerome Rafats.
- NAL -- BIBL. -- 77-04. *Concentrations of Metals Soils.* 189 citations from AGRICOLA, no exclusions. Search by Charles N. Bebee.

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NAL -- BIBL. -- 77-05. *Aquatic Weed Control*.  
200 citations from AGRICOLA, English  
only, 1972 to July 1976. Search by  
Charles N. Bebee.

NAL -- BIBL. -- 77-06. *Wind and Water Mills*.  
69 citations from AGRICOLA, no  
exclusions, 1969-1976. Search by  
Charles N. Bebee.

NAL -- BIBL. -- 77-07. *Biosystematics--U.S.  
Publications*. 84 citations from AGRICOLA,  
English only, 1971-1976. Search by  
Charles N. Bebee.

NAL -- BIBL. -- 77-08. *Adjuvants and Surfactants  
on Plants*. 125 citations from AGRICOLA,  
no exclusions, 1971 to August 1976.  
Search by Charles N. Bebee.

NAL -- BIBL. -- 77-09. *Agricultural and Farm  
Cooperatives and Organizations*.  
115 citations from AGRICOLA, no  
exclusions, 1969 to September 1976.  
Search by Henry Gilbert.

NAL -- BIBL. -- 77-10. *Plant Indicators in Ecology*.  
79 citations from AGRICOLA, no exclusions,  
June 1969 to September 1976. Search by  
Ruth Pyne.

NAL -- BIBL. -- 77-11. *Agriculture Labor*. 32  
citations from CAIN, English only. 1969-  
1975. Search by Charles N. Bebee.

NAL -- BIBL. -- 77-12. *Agriculture and Government  
Policy*. 149 citations from CAIN, no  
exclusions, 1962-1976. Search by  
Charles N. Bebee.

NAL -- BIBL. -- 77-13. *Biosystematics--Worldwide*.  
187 citations from AGRICOLA, no  
exclusions, 1968-1976. Search by  
Charles N. Bebee.

NAL -- BIBL. -- 77-14. *Planting and Sowing Dates*.  
150 citations from CAIN, English only,  
1973-1976. Search by Henry Gilbert.

NAL -- BIBL. -- 77-15. *Earthworms*, 1969-1976.  
116 citations from CAIN only. Search  
by Charles N. Bebee.

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## NEWS NOTES

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The Agricultural Research and Cooperative State Research Services, U.S. Department of Agriculture, have jointly acquired a mini-computer (Datapoint 5500 clustered terminal system) for use in support of the Department's Pesticide Impact Assessment Program. The computer is located in the CRIS (Current Research Information System) office and will also be used to input CRIS data. The Pesticide Program is being developed through the cooperation of Agricultural Research Service, Cooperative State Research Service, and Extension Service.

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As a result of the President's energy message on April 20, the National Solar Heating and Cooling Information Center anticipates increased volume on its phone lines. If you have questions of the Center, please address them to:

Solar Heating  
P.O. Box 1607  
Rockville, MD 20850.

As soon as details of the President's message become available, the Center will issue a bulletin to all on its mailing list.

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Kathleen F. O'Leary, an indexer at NAL, is written up in an article "Hire the Handicapped Librarian" by W. A. Zerface (Wilson Library Bulletin, April 1977). Kathleen uses lipreading and sign language.

## NFAIS NEWSLETTER

*NFAIS Newsletter* is published every two months by the National Federation of Abstracting and Indexing Services (NFAIS).

It contains summary news articles about:

- (1) Activities of NFAIS members and affiliates—approximately 40 U.S. and foreign non-profit organizations and U.S. government agencies which produce abstracting and indexing services.
- (2) Activities of information interest from other organizations—activities such as abstracting and indexing services, current research, serials, thesauri, new publications, standards, networks, information retrieval, conferences, copyright, on-line data bases, international activities, and document delivery.
- (3) NFAIS activities—the chief purpose of NFAIS is to improve the extent and quality of the documentation and use of the world's literature through research programs, publications, and educational seminars; the NFAIS Newsletter reports on these activities.

At least two special issues of the NFAIS Newsletter are published each year. The February issue contains statistics from 1958 to date on the number of documents covered by NFAIS members and affiliates—a useful key to the growth of the scientific and technical literature. And the April issue contains the text of the Miles Conrad Memorial Lecture given at the NFAIS Annual Conference by an outstanding individual on a suitable topic in the field of abstracting and indexing. Recent lecturers have included Dr. William O. Baker, Bell Laboratories (1977); Frederick G. Kilgour, Ohio College Library Center (1976); and Melvin S. Day, National Library of Medicine (1975).

NFAIS scans hundreds of pages of press releases, newsletters, etc. to compile articles for each issue of the NFAIS Newsletter. NFAIS is in a unique position to receive the most up-to-date news in the field of information—often before it's published elsewhere.

Sample issues and brochures can be obtained by writing to:


NFAIS, Publications—U.S.  
3401 Market Street  
Philadelphia, PA 19104

## INTERNATIONAL AGRICULTURAL LIBRARIANSHIP

### A CALL FOR PAPERS

The Associates of the National Agricultural Library, Inc., and others, are planning to sponsor a fall symposium on "International Agricultural Librarianship: Continuity and Change," on November 4, 1977. The Symposium will focus attention upon the practical role of agricultural librarians and documentalists, the changing characteristics of agricultural resource centers, and the growing importance of both, in terms of informational services to the world community. The Symposium will be highlighted by a special tribute to Foster Mohrhardt, former Director of the National Agricultural Library. The program will be scholarly and interdisciplinary, with the participation of non-academic authorities from public and private organizations.

The proceedings will be published and widely disseminated as an informative and educational document in the field of Agricultural Librarianship. In this regard, we hope to publish many important papers which could not be delivered in person.

FOR FURTHER INFORMATION, CONTACT  
ALAN FUSONIE OR LEILA MORAN,  
COORDINATORS, The Associates of the  
National Agricultural Library, Inc.,  
10301 Baltimore Blvd., Beltsville, Maryland  
20705. 

## GREATEST POTENTIAL FOR POULTRY GROWTH IN DEVELOPING COUNTRIES, SAYS DR. JASPER

New Delhi, India, March 4: The greatest potential for growth in the production and consumption of eggs and poultry is to be found in developing countries. Dr. A. William Jasper, President, World's Poultry Science Association, has made this observation in the lead article in the International Section of the 1976-77 edition of the *Indian Poultry Industry Yearbook*. Dr. Jasper is the *Yearbook's* consulting editor.

Developing countries have 60 percent of the world's livestock and fowl, but produce only about 22 percent of the world's supply of meat, milk and eggs, he adds. For rapid expansion of poultry in the emerging countries, eggs and poultry must be retailed cheaply which would be possible through drastic reduction in feed costs. Only then can the world keep half-a-step ahead of the population growth.

The 32-page International Section, a new feature of the *Yearbook*, presents data on international agencies and poultry production and organizations in more than 50 countries. It lists names of senior personnel in government, education, trade and industry. Such information, particularly about the emerging countries, would be valuable in defining new marketing opportunities and prospects as well as promote international trade.

The 1976-77 *Yearbook* is the third in the series. It is bigger (452 pages) and has a wider coverage, but continues to be priced at U.S. \$15. Through its three editions, it has emerged as a handy source book on latest economic, trade and technical aspects of poultry management and production. It puts together in a simple language thousands of facts and figures need by everyone concerned with poultry, including farmers and extension specialists, to make their labor more rewarding.

The *Yearbook* also discusses methodology for accelerating rural development through poultry raising, detailing infrastructure needed with reference to conditions in the Third World countries. Economic and technical feasibility of small 50-bird

units has been presented. Dr. P. Bhattacharya, Member, India's National Commission on Agriculture, deals with this subject in a review article.

The tremendous potential of poultry in bringing about socio-economic upliftment of rural areas in the emerging countries needs to be tapped.

Among other new features of the *Yearbook* is a 32-page dictionary of poultry diseases which also contains a diagnostic guide, symptomwise. Also included are charts for layer and broiler house management, proformas for keeping records of production and flock diseases and egg production cost calculator, which highlight many aspects of scientific poultry management.

All this wealth of information makes the *Yearbook* useful to poultry farmers and extension personnel, input producers and suppliers, industry executives and sales force, administrators and planners, scientists and scholars, colleges and universities, technical and trade libraries, information centres and vocational guidance bureaus—in short, to anyone and everyone concerned with poultry and rural development.

Copies of the 452-page *Yearbook* can be ordered from the publisher, the Indian Poultry Industry Yearbook, 2C/34 New Rohtak Rd., New Delhi 110005, India. For airshipping, \$8 should be added to the \$15 price of the book. All checks should be made in favor of "Indian Poultry Industry Yearbook."



## NAL DATA BASES—ONE MILLIONTH CITATION

The National Agricultural Library expects to add the one millionth citation to its data bases in the autumn of 1977. The event will be celebrated with a symposium on Friday, October 21, 1977 at the Library in Beltsville, Maryland. Vern Van Dyke and Leila Moran are coordinators for the symposium. Papers from friends and users of the Library are welcome! Inquiries should be directed to Leila Moran, Chief, Reference Division, National Agricultural Library, Beltsville, Maryland 20705. Telephone: 301-344-3836.





*Agricultural Literature: Proud Heritage -- Future Promise.* A Bicentennial Symposium, September 24-26, 1975. Edited by Alan Fusonie and Leila Moran. Washington, D.C., Associates of the National Agricultural Library, Inc. and the Graduate School Press. U.S. Department of Agriculture (c.1977) 371 p. Paperback \$9.95, hardback \$13.50. Order from Graduate School Press, U.S. Department of Agriculture, Room 1410 South Building, Washington, D.C. 20250.

*Brucellosis Research: An Evaluation.* Subcommittee on Brucellosis Research, Committee on Animal Health, Board on Agriculture and Renewable Resources; Commission on Natural Resources, National Research Council (Board on Agriculture and Renewable Resources, 1977; 260 p; available from Claude J. Nelson, Animal and Plant Health Inspection Service, U.S. Department of Agriculture, 6505 Belcrest Road, Hyattsville, Md. 20782).

*The Dairy Industry in America.* Ralph Selitzer. New York, Dairy Field and Books for Industry Divisions of Magazines for Industry, Inc., (1977) 502 p. \$45. Order from publisher at 777 Third Avenue, N.Y. N.Y. 10017.

*Food and Nutrition Board Activities Report: 1976, with Historical Appendices.* Food and Nutrition Board; Division of Biological Sciences, Assembly of Life Sciences, National Research Council (Food and Nutrition Board, 1976; 50 p.; available from the board, 2101 Constitution Avenue, N.W., Washington, D.C. 20418. Supply limited.

*Henry Highland Garnet: A Voice of Black Radicalism in the Nineteenth Century.* Joel Schor. Westport, Conn., Greenwood Press, 1977. 251 p. \$15.95. ISBN 0-8371-8937-3.

*Indice del Boletín de la Sociedad Botánica de Mexico.* Nos. 1-35, 1944-1975. Mexico, D. F., Sociedad Botánica de Mexico, S.C., 1976. 48 p. Not priced. Requested from the Sociedad, Apartado Postal 70-385, Mexico 20, D.F.

*Indian Poultry Industry Yearbook 1976-77.* Editors: A. William Jasper, J. N. Panda, D. K. Biswas, A.P. Sachdev. New Delhi, S. P. Gupta, 1977. 424 p. U.S. \$15 postage free by sea mail; for airshipment add U.S. \$8.



## NEW APPOINTMENTS AT NAL

William Lewis has been selected as the Equal Employment Coordinator for NAL. He will have additional duties and responsibilities as the Liaison Officer to the Personnel Division of the Agricultural Research Service -- NAL's Servicing agency. Specifically, this covers the areas of training, recruitment, and position management. He will also participate with the Executive Officer in current Union negotiations and be the contact point for Union representatives. He will be designated the NAL representative to the Department's EEO Advisory Committee. Lewis was selected from a strong list of highly qualified candidates. His experience ranges from direct personnel work in the military and the civil service to EEO experience as an investigator and as a planner. Considerable formal training in personnel management, classification and labor-management relations rounds out his background.

\* \* \* \*

Leila Moran has been appointed Chief, Reference Division, effective April 25, 1977. Moran has been Information Officer for NAL 1969-1977. Prior to that, she held various progressively responsible positions in the Division of Acquisitions.

\* \* \* \*

Charles Bebee, formerly Chief of Reference Division, has been reassigned to head up Automated Search Services.





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of

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the Associates of the National Agricultural  
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as a ready reference tool for students, scholars,  
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## AGRICULTURE DATEBOOK



*June 16-23: ALA ANNUAL CONFERENCE.*  
Detroit, Michigan.

*June 18: AGRICULTURAL & BIOLOGICAL  
SCIENCES SECTION, ACRL. MEMBERSHIP  
MEETING.* Veterans Memorial Building, Polar  
Bear Room, Detroit, Michigan.  
Time: 10:00 a.m. - noon. Speaker: Peter H. Cousins.  
Topic: Development of the Henry Ford Museum  
agricultural technology collection.

*June 21-23: 4TH SYMPOSIUM ON MACHINE  
PROCESSING OF REMOTELY SENSED DATA.*  
Sponsored by Purdue University with the cooperation  
of the American Society of Photogrammetry.  
Contact: John C. Lindenlaub, LARS, Purdue  
University, 1220 Potter Drive, W. Lafayette,  
Indiana 47906.

*June 27-29: INTL. WATER RESOURCES  
(SYMPOSIUM IN HYDROLOGY).* Fort Collins,  
Colorado. Contact: N. S. Grigg, Engineering  
Research Center, Foothills Campus, Colorado University,  
Fort Collins, Colorado 80521.

*June 27-July 1: AMERICAN HOME ECONOMICS  
ASSOCIATION.* Boston, Massachusetts.  
Contact: Maxine Westby, 2010 Massachusetts  
Avenue, N.W., Washington, D.C. 20036.

*June 29-July 2: THE SECOND INTERNATIONAL  
CONFERENCE ON TRANSFER OF WATER  
RESOURCES KNOWLEDGE.* Colorado State  
University. Primary topics will be providing  
mechanisms for transfer of results, knowledge  
transfer to improve conditions for the rural poor,  
and a look at water resources scientific information  
systems. Workshops will make recommendations  
on each of the primary topics. Contact: Neil S. Grigg,  
Conference Director, Engineering Research Center,  
Colorado State University, Fort Collins, Colorado,  
80523.

*(Continued on page 16)*

*July 3-7: FOREST PRODUCTS RESEARCH SOCIETY.* Brown Palace & Cosmopolitan Hotel, Denver, Colorado. Contact: K. E. Huddleston, 2801 Marshall Court, Madison, Wisconsin 53705.

*July 10-22: GRADUATE INSTITUTE OF COOPERATIVE LEADERSHIP.* University of Missouri-Columbia. Sponsored by a Board of Trustees representing some of the nation's leading cooperatives and related organizations. Designed primarily for cooperative employees with leadership potential. Announcements and nomination forms available from: Dean Elmer R. Kiehl, 2-69 Agriculture, University of Missouri, Columbia, Missouri 65201.

*July 11-14: NATIONAL ASSOCIATION OF FEDERAL VETERINARIANS.* Atlanta, Georgia. Contact: Dr. C. H. Pals, Ste. 828, 1522 K Street, N.W., Washington, D.C. 20005.

*July 11-14: AMERICAN VETERINARY MEDICAL ASSOCIATION.* R. G. Rongren, 930 N. Meacham Road, Schaumburg, Illinois 60172.

*July 11-17: 6TH ASIAN PACIFIC WEED SCIENCE SOCIETY CONFERENCE,* Jakarta/Indonesia.

*July 17-20: AQUATIC PLANT MANAGEMENT SOCIETY ANNUAL MEETING,* Holiday Inn (downtown), Minneapolis, MN/USA.

*July 17-20: AGRICULTURAL INSTITUTE OF CANADA.* Guelph, Ontario, Canada. Contact: W. E. Henderson, Ste. 151, Slater Street, Ottawa K1P-5H4, Ontario.

*July 31-August 3: AMERICAN AGRICULTURAL ECONOMICS ASSOCIATION.* Town & Country Hotel, San Diego, California. Contact: J. C. Redman, Department of Agricultural Economics, University of Kentucky, Lexington, Kentucky 40506.

*July 31-August 3: AMERICAN SOCIETY OF ANIMAL SCIENCE.* Madison, Wisconsin. Contact: C. J. Cruse, 113 N. Neil, Champaign, Illinois 61820.

*August: AMERICAN SOCIETY OF PARASITOLOGISTS.* Las Vegas, Nevada. Contact: Dr. D. V. Moore, University of Texas, S.W. Medical School, Dallas, Texas 75235.

*August: AMERICAN SOYBEAN ASSOCIATION.* Galt House Hotel. Louisville, Kentucky. Contact: Don Dingman, P.O. Box 158, Hudson, Iowa 50643.

*August 2-3: EUROPEAN WEED RESEARCH SOCIETY SYMPOSIUM,* Uppsala/Sweden.

*August 7-10: SOIL CONSERVATION SOCIETY OF AMERICA.* John Marshall Hotel, Richmond, Virginia. Contact: H. W. Pritchard, 7515 NE. Ankeny, Iowa 50021.

*August 8-12: POULTRY SCIENCE ASSOCIATION.* Auburn, Alabama. Contact: Dr. C. B. Ryan, Texas A & M University, College Station, Texas 77843.

*August 14-18: INTL. SHADE TREE CONFERENCE.* Philadelphia Marriott Hotel, Philadelphia, Pennsylvania. Contact: E. C. Bundy, P.O. Box 71, Urbana, Illinois 61801.

*August 21-26: AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES & AFFILIATED GROUPS.* East Lansing, Michigan. Contact: Dr. Richard Trumbull, 1401 Wilson Blvd., Arlington, Virginia 22209.

*August 21-26: AMERICAN PHYTOPATHOLOGICAL SOCIETY.* East Lansing, Michigan. Contact: R. J. Tarleton, 3340 Pilot Knob Road, St. Paul, Minnesota 55121.

*September 26-October 1: AMERICAN SOCIETY FOR INFORMATION SCIENCE.* Chicago, Illinois.

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